



44

SEQUENCE LISTING

<110> Sharp, David J.
Rogers, Gregory C.
Scholey, Jonathon M.

<120> PEPTIDE INHIBITORS OF CELLULAR
PROLIFERATION

<130> UC069.001A

<140> 09/782,816

<141> 2001-02-14

<160> 56

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 23

<212> PRT

<213> Unknown

<220>

<221> UNSURE

<222> 22

<223> Xaa = Val or Leu

<223> Peptide sequence

<400> 1

Glu Val Glu Lys Ile Lys Thr Thr Val Lys Glu Ser Ala Thr Glu Glu

1

5

10

15

Lys Leu Thr Pro Val Xaa Leu

20

<210> 2

<211> 22

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 2

Glu Val Ala Ala Leu Gln Val Asp Arg Lys Val Ala Asp Glu Glu Lys

1

5

10

15

Gln Ser Tyr Asp Ala Val

20

<210> 3

<211> 22

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 3

Gly	Val	Lys	Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu
1				5					10					15	
Val	Gln	Glu	Leu	Thr	Thr										
			20												

<210> 4

<211> 21

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 4

Val	Lys	Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val
1				5					10					15	
Gln	Glu	Leu	Thr	Thr											
			20												

<210> 5

<211> 20

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 5

Lys	Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln
1				5					10					15	
Glu	Leu	Thr	Thr												
			20												

<210> 6

<211> 19

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 6

Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu
1				5					10					15	
Leu	Thr	Thr													

<210> 7
<211> 18
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 7
Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu
1 5 10 15
Thr Thr

<210> 8
<211> 17
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 8
Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr
1 5 10 15
Thr

<210> 9
<211> 16
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 9
Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10 15

<210> 10
<211> 15
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 10
Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10 15

<210> 11

<211> 14
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 11
Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 12
<211> 13
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 12
Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 13
<211> 12
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 13
Gln Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 14
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Peptide sequence

<400> 14
Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 15
<211> 10
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 15

Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 16

<211> 9

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 16

Leu His Glu Val Gln Glu Leu Thr Thr
1 5

<210> 17

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 17

His Glu Val Gln Glu Leu Thr Thr
1 5

<210> 18

<211> 7

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 18

Glu Val Gln Glu Leu Thr Thr
1 5

<210> 19

<211> 6

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 19

Val Gln Glu Leu Thr Thr
1 5

<210> 20
<211> 5
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 20
Gln Glu Leu Thr Thr
1 5

<210> 21
<211> 4
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 21
Glu Leu Thr Thr
1

<210> 22
<211> 7
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 22
Ala Lys Gln Leu Ala Ala Leu
1 5

<210> 23
<211> 6
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 23
Ala Lys Gln Leu Ala Ala

1

5

<210> 24
<211> 5
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 24
Ala Lys Gln Leu Ala
1 5

<210> 25
<211> 4
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 25
Ala Lys Gln Leu
1

<210> 26
<211> 22
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 26
Gly Glu Lys Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu
1 5 10 15
Met Asn Glu Leu Leu Asn
20

<210> 27
<211> 21
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 27

Glu	Lys	Glu	Thr	Pro	Val	Gln	Lys	Cys	Gln	Arg	Leu	Gln	Ile	Glu	Met
1				5					10					15	
Asn	Glu	Leu	Leu	Asn											
			20												

<210> 28
 <211> 20
 <212> PRT
 <213> Unknown

<220>

<223> Peptide sequence

<400> 28
Lys Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn
1 5 10 15
Glu Leu Leu Asn
20

<210> 29
 <211> 19
 <212> PRT
 <213> Unknown

<220>

<223> Peptide sequence

<400> 29
Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu
1 5 10 15
Leu Leu Asn

<210> 30
 <211> 18
 <212> PRT
 <213> Unknown

<220>

<223> Peptide sequence

<400> 30
Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu
1 5 10 15
Leu Asn

<210> 31
 <211> 17
 <212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 31

Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu
1 5 10 15
Asn

<210> 32

<211> 16

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 32

Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10 15

<210> 33

<211> 15

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 33

Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10 15

<210> 34

<211> 14

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 34

Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 35

<211> 13

<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 35
Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 36
<211> 12
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 36
Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 37
<211> 11
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 37
Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 38
<211> 10
<212> PRT
<213> Unknown

<220>

<223> Peptide sequence

<400> 38
Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 39
<211> 9
<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 39

Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5

<210> 40

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 40

Ile Glu Met Asn Glu Leu Leu Asn
1 5

<210> 41

<211> 7

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 41

Glu Met Asn Glu Leu Leu Asn
1 5

<210> 42

<211> 6

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 42

Met Asn Glu Leu Leu Asn
1 5

<210> 43

<211> 5

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 43

Asn Glu Leu Leu Asn

1

5

<210> 44

<211> 4

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 44

Glu Leu Leu Asn

1

<210> 45

<211> 9

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 45

Val Ala Thr Val Ile Ser Thr Ala Arg

1

5

<210> 46

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 46

Val Ala Thr Val Ile Ser Thr Ala

1

5

<210> 47

<211> 7

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 47

Val Ala Thr Val Ile Ser Thr
1 5

<210> 48

<211> 6

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 48

Val Ala Thr Val Ile Ser
1 5

<210> 49

<211> 5

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 49

Val Ala Thr Val Ile
1 5

<210> 50

<211> 4

<212> PRT

<213> Unknown

<220>

<223> Peptide sequence

<400> 50

Val Ala Thr Val
1

<210> 51

<211> 52

<212> PRT

<213> Unknown

<220>

<221> UNSURE
 <222> 44
 <223> Xaa = Val or Leu

<223> Peptide sequence

<400> 51

Gly	Val	Lys	Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu
1				5					10					15	
Val	Gln	Glu	Leu	Thr	Thr	Glu	Val	Glu	Lys	Ile	Lys	Thr	Thr	Val	Lys
			20					25					30		
Glu	Ser	Ala	Thr	Glu	Glu	Lys	Leu	Thr	Pro	Val	Xaa	Leu	Ala	Lys	Gln
		35					40					45			
Leu	Ala	Ala	Leu												
			50												

<210> 52
 <211> 53
 <212> PRT
 <213> Unknown

<220>

<223> Peptide sequence

<400> 52

Gly	Glu	Lys	Glu	Thr	Pro	Val	Gln	Lys	Cys	Gln	Arg	Leu	Gln	Ile	Glu
1				5					10					15	
Met	Asn	Glu	Leu	Asn	Glu	Val	Ala	Ala	Leu	Gln	Val	Asp	Arg	Lys	
			20				25					30			
Val	Ala	Asp	Glu	Glu	Lys	Gln	Ser	Tyr	Asp	Ala	Val	Val	Ala	Thr	Val
		35					40					45			
Ile	Ser	Thr	Ala	Arg											
			50												

<210> 53
 <211> 406
 <212> PRT
 <213> Homo sapiens

<400> 53

Met	Ala	Asp	Pro	Lys	Tyr	Ala	Asp	Leu	Pro	Gly	Ile	Ala	Arg	Asn	Glu
1				5					10					15	
Pro	Asp	Val	Tyr	Glu	Thr	Ser	Asp	Leu	Pro	Glu	Asp	Asp	Gln	Ala	Glu
			20					25					30		
Phe	Asp	Ala	Phe	Ala	Gln	Glu	Leu	Glu	Glu	Leu	Thr	Ser	Thr	Ser	Val
		35					40				45				
Glu	His	Ile	Ile	Val	Asn	Pro	Asn	Ala	Ala	Tyr	Asp	Lys	Phe	Lys	Asp
	50					55				60					
Lys	Arg	Val	Gly	Thr	Lys	Gly	Leu	Asp	Phe	Ser	Asp	Arg	Ile	Gly	Lys
65					70				75					80	
Thr	Lys	Arg	Thr	Gly	Tyr	Glu	Ser	Gly	Glu	Tyr	Glu	Met	Leu	Gly	Glu
			85					90					95		
Gly	Leu	Gly	Val	Lys	Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu
			100					105					110		

His	Glu	Val	Gln	Glu	Leu	Thr	Thr	Glu	Val	Glu	Lys	Ile	Lys	Thr	Thr	
		115					120					125				
Val	Lys	Glu	Ser	Ala	Thr	Glu	Glu	Lys	Leu	Thr	Pro	Val	Leu	Leu	Ala	
		130					135				140					
Lys	Gln	Leu	Ala	Ala	Leu	Lys	Gln	Gln	Leu	Val	Ala	Ser	His	Leu	Glu	
145					150					155					160	
Lys	Leu	Leu	Gly	Pro	Asp	Ala	Ala	Ile	Asn	Leu	Thr	Asp	Pro	Asp	Gly	
			165					170						175		
Ala	Leu	Ala	Lys	Arg	Leu	Leu	Leu	Gln	Leu	Glu	Ala	Thr	Lys	Asn	Ser	
			180					185					190			
Lys	Gly	Gly	Ser	Gly	Gly	Lys	Thr	Thr	Gly	Thr	Pro	Pro	Asp	Ser	Ser	
		195					200					205				
Leu	Val	Thr	Tyr	Glu	Leu	His	Ser	Arg	Pro	Glu	Gln	Asp	Lys	Phe	Ser	
		210				215					220					
Gln	Ala	Ala	Lys	Val	Ala	Glu	Leu	Glu	Lys	Arg	Leu	Thr	Glu	Leu	Glu	
225					230					235					240	
Thr	Ala	Val	Arg	Cys	Asp	Gln	Asp	Ala	Gln	Asn	Pro	Leu	Ser	Ala	Gly	
				245					250					255		
Leu	Gln	Gly	Ala	Cys	Leu	Met	Glu	Thr	Val	Glu	Leu	Leu	Gln	Ala	Lys	
			260				265						270			
Val	Ser	Ala	Leu	Asp	Leu	Ala	Val	Leu	Asp	Gln	Val	Glu	Ala	Arg	Leu	
		275				280					285					
Gln	Ser	Val	Leu	Gly	Lys	Val	Asn	Glu	Ile	Ala	Lys	His	Lys	Ala	Ser	
		290				295					300					
Val	Glu	Asp	Ala	Asp	Thr	Gln	Ser	Lys	Val	His	Gln	Leu	Tyr	Glu	Thr	
305					310					315					320	
Ile	Gln	Arg	Trp	Ser	Pro	Ile	Ala	Ser	Thr	Leu	Pro	Glu	Leu	Val	Gln	
				325					330					335		
Arg	Leu	Val	Thr	Ile	Lys	Gln	Leu	His	Glu	Gln	Ala	Met	Gln	Phe	Gly	
			340					345					350			
Gln	Leu	Leu	Thr	His	Leu	Asp	Thr	Gln	Gln	Met	Ile	Ala	Asn	Ser		
		355					360				365					
Leu	Lys	Asp	Asn	Thr	Thr	Leu	Leu	Thr	Gln	Val	Gln	Thr	Thr	Met	Arg	
		370				375					380					
Glu	Asn	Leu	Ala	Thr	Val	Glu	Gly	Asn	Phe	Ala	Ser	Ile	Asp	Glu	Arg	
385					390					395					400	
Met	Lys	Lys	Leu	Gly	Lys											
				405												

<210> 54
 <211> 183
 <212> PRT
 <213> Mouse

<400> 54
 Met Ala Asp Pro Lys Tyr Ala Asp Leu Pro Gly Ile Ala Arg Asn Glu
 1 5 10 15
 Pro Asp Val Tyr Glu Thr Ser Asp Leu Pro Glu Asp Asp Gln Ala Glu
 20 25 30
 Phe Asp Ala Glu Glu Leu Ser Ser Thr Ser Val Glu His Ile Ile Val
 35 40 45
 Asn Pro Asn Ala Ala Tyr Asp Lys Phe Lys Asp Lys Arg Val Gly Thr
 50 55 60
 Lys Gly Leu Asp Phe Ser Asp Arg Ile Gly Lys Thr Lys Arg Thr Gly
 65 70 75 80
 Tyr Glu Ser Gly Asp Tyr Glu Met Leu Gly Glu Gly Leu Gly Val Lys

				85					90					95			
Glu	Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu		
			100					105					110				
Leu	Thr	Thr	Glu	Val	Glu	Lys	Ile	Lys	Thr	Thr	Val	Lys	Glu	Ser	Ala		
		115					120					125					
Thr	Glu	Glu	Lys	Leu	Thr	Pro	Val	Val	Leu	Ala	Lys	Gln	Leu	Ala	Ala		
	130					135					140						
Leu	Lys	Gln	Gln	Leu	Val	Ala	Ser	His	Leu	Glu	Lys	Leu	Leu	Gly	Pro		
145					150					155					160		
Asp	Ala	Ala	Ile	Asn	Leu	Ala	Asp	Pro	Asp	Gly	Ala	Leu	Ala	Lys	Arg		
			165						170					175			
Leu	Leu	Leu	Gln	Leu	Glu	Ala											
			180														

<210> 55
 <211> 1143
 <212> DNA
 <213> Drosophila melanogaster

<400> 55
 atggccgcatc ccaagttcca gaacctaccg ggaatagctt atgaccagcc ggacgtgtac 60
 gaaactccag atgaccgga gctcgataca tccgactact acgaagagga gccggagaac 120
 gaagccatcg agcgactgca catctcgccg agcgtcgctc acaagcgctt cagcggagca 180
 acggtcgagg ggagtgtgga cttcacggat cgcattggac gacgcatgtg ccgggggttac 240
 gatacgcgcg gctccagcga ctacgagctg gttggccagg gcgagaagga gacgccggtg 300
 cagaagtgcc agcgcttcca gatcgagatg aacgagcttc tgaacgaggt ggccgccttg 360
 caggtggacc gcaaggtagc cgacgaggag aagcagtcgt acgatgcggt ggccacggtt 420
 atcagcacgg cccgaaaagg gctggagtcg ctgaagctgg agcaagtgtt gggcaaggag 480
 cagacgcctg gaagtaagca ggtgaaagca ctcattagcc aggtggagga gttcaagcag 540
 tccggcggtc tcacagccat acccacgcct ggcaccgatc tggcggccac ggccgcgcta 600
 gccagtctag agcagcgaat ctgcgagctg gagaagggtc tggcgctca gccggacaag 660
 ttgagccgcc ttaccgccc caccaacacc accaatgtac tagaggcagt gcgtcatcta 720
 agcaccaagg cggccctgat acagcctgat aaactggaca ccatcgagca gcgcctgacc 780
 tcgctggccg gcaagatgga tgctatcgcc gaaaagtcca gcggcagtgcc ccaggacgcc 840
 aaacgagatc agaagattac ggaactatac gacatcgcca agcgcacgga gccagtgttg 900
 gaaatactgc cgcacgtcat cgaacgcatg caagccctcg aggccctcca taaatatgca 960
 aacaatttcg ccaagatcat cgcagagatt gagcagaagc agggaaccat caccactagc 1020
 ttggtgaaca acaaggagct gctgcattcc gtacaggaga ctttcgcccc gaatctggag 1080
 actatcaaca gcaaggtggc caaggtggag cagcgtgtgg cgcccatatc gtctgccaaa 1140
 tga 1143

<210> 56
 <211> 380
 <212> PRT
 <213> Drosophila melanogaster

Met	Ala	Asp	Pro	Lys	Phe	Gln	Asn	Leu	Pro	Gly	Ile	Ala	Tyr	Asp	Gln		
1				5				10						15			
Pro	Asp	Val	Tyr	Glu	Thr	Pro	Asp	Asp	Pro	Glu	Leu	Asp	Thr	Ser	Asp		
		20					25						30				
Tyr	Tyr	Glu	Glu	Glu	Pro	Glu	Asn	Glu	Ala	Ile	Glu	Arg	Leu	His	Ile		
		35					40					45					
Ser	Pro	Ser	Val	Ala	His	Lys	Arg	Phe	Ser	Gly	Ala	Thr	Val	Glu	Gly		
	50					55					60						
Ser	Val	Asp	Phe	Thr	Asp	Arg	Ile	Gly	Arg	Arg	Met	Cys	Arg	Gly	Tyr		

65					70					75					80
Asp	Thr	Arg	Gly	Ser	Ser	Asp	Tyr	Glu	Leu	Val	Gly	Gln	Gly	Glu	Lys
				85					90					95	
Glu	Thr	Pro	Val	Gln	Lys	Cys	Gln	Arg	Leu	Gln	Ile	Glu	Met	Asn	Glu
			100					105					110		
Leu	Leu	Asn	Glu	Val	Ala	Ala	Leu	Gln	Val	Asp	Arg	Lys	Val	Ala	Asp
		115						120				125			
Glu	Glu	Lys	Gln	Ser	Tyr	Asp	Ala	Val	Ala	Thr	Val	Ile	Ser	Thr	Ala
	130					135					140				
Arg	Lys	Val	Leu	Glu	Ser	Leu	Lys	Leu	Glu	Gln	Val	Leu	Gly	Lys	Glu
145					150					155					160
Gln	Thr	Pro	Gly	Ser	Lys	Gln	Val	Lys	Ala	Leu	Ile	Ser	Gln	Val	Glu
				165					170					175	
Glu	Phe	Lys	Gln	Ser	Gly	Val	Leu	Thr	Ala	Ile	Pro	Thr	Pro	Gly	Thr
			180					185					190		
Asp	Leu	Ala	Ala	Thr	Ala	Arg	Val	Ala	Ser	Leu	Glu	Gln	Arg	Ile	Ser
		195					200					205			
Gln	Leu	Glu	Lys	Val	Leu	Gly	Ala	Gln	Pro	Asp	Lys	Leu	Ser	Arg	Leu
	210					215					220				
Thr	Ala	Ala	Thr	Asn	Thr	Thr	Asn	Val	Leu	Glu	Ala	Val	Arg	His	Leu
225					230					235					240
Ser	Thr	Lys	Ala	Ala	Leu	Ile	Gln	Pro	Asp	Lys	Leu	Asp	Thr	Ile	Glu
			245						250					255	
Gln	Arg	Leu	Thr	Ser	Leu	Ala	Gly	Lys	Met	Asp	Ala	Ile	Ala	Glu	Lys
			260					265					270		
Ser	Ser	Gly	Ser	Ala	Gln	Asp	Ala	Lys	Arg	Asp	Gln	Lys	Ile	Thr	Glu
		275					280					285			
Leu	Tyr	Asp	Ile	Ala	Lys	Arg	Thr	Glu	Pro	Val	Val	Glu	Ile	Leu	Pro
	290					295					300				
His	Val	Ile	Glu	Arg	Met	Gln	Ala	Leu	Glu	Ala	Leu	His	Lys	Tyr	Ala
305					310					315					320
Asn	Asn	Phe	Ala	Lys	Ile	Ile	Ala	Glu	Ile	Glu	Gln	Lys	Gln	Gly	Thr
			325						330					335	
Ile	Thr	Thr	Ser	Leu	Val	Asn	Asn	Lys	Glu	Leu	Leu	His	Ser	Val	Gln
			340					345					350		
Glu	Thr	Phe	Ala	Gln	Asn	Leu	Glu	Thr	Ile	Asn	Ser	Lys	Val	Ala	Lys
		355					360					365			
Val	Glu	Gln	Arg	Val	Ala	Ala	Ile	Ser	Ser	Ala	Lys				
	370					375					380				

W:\DOCS\BGY\SEQUENCE LISTING\UC Sequences\UC069.001A.doc
051801